## Introduction to Manufacturing Technology Technology Education—Applied Technology Education Utah State Office of Education

CIP Code 210110

Text Book: ?

COURSE DESCRIPTION: A hands-on course that introduces students to manufacturing technology by changing raw materials into finish products by using current manufacturing technologies including automated systems.

## **STANDARD & OBJECTIVES**

210110.01	STUDENTS WILL INVESTIGATE CAREER OPPORTUNITIES IN THE MANUFACTURING INDUSTRY, WILL EXPLORE THE IMPACT OF MANUFACTURING TECHNOLOGY ON OUR SOCIATY, AND WILL BE ABLE TO IDENTIFY A VARIETY OF MANUFACTURING TECHNOLOGIES, AND WILL LEARN AND USE SAFETY PRACTICES.
210110.0101 210110.0102	The students will identify occupations related to the manufacturing industry. Student will state the differences between past and present methods of manufacturing.
210110.0103	Students will identify a variety of systems, methods, and materials used for
210110.0104	building manufacturing technology. Students will learn and use safe work habits and techniques.
210110.02	CHANGING RAW MATERIALS INTO FINISHED PRODUCTS.
210110.0201 210110.0202 210110.0203 210110.0204 210110.0205	The students will understand various material properties and their uses.  The student will demonstrate Assembling processes  The student will demonstrate finishing processes  The student will demonstrate Forming processes  The student will apply all the necessary steps in a production sequence
210110.03	OBTAIN BASIC SKILLS IN USE OF MANUFACTURING EQUIPMENT AND TOOLS.
210110.0301 210110.0302	The student will learn and use Safety rules and practices.  The student will demonstrate proper techniques for use in operation of basic equipment
210110.0303	Students will demonstrate the use of automated systems

210110.04	UNDERSTAND THE MANUFACTURING DESIGN PROCESS
210110.0401	Students will know the steps of the design process.
	Students will understand how to identify and classify a problem.
210110.0403	Students will know the steps of researching a design problem.
210110.0404	Students will solve a design-based problem.
210110.05	INTRODUCE FREE ENTERPRISE AS IT RELATES TO MANUFACTURING.
210110.0501	Students will explore entrepreneurship concepts.
210110.0502	Students will participate in the mass production process.
210110.0503	Students will understand the process of obtaining capital and managing
	finances.
210110.0504	Students will learn Marketing techniques.

